## ENCLOSURE 1

Water Bodies & Pollutants of Concern	dwaters TMDL Planning Area Metals TMDL Summay Information.  30 individual water body/pollutant combinations addressed as follows:
	<ul> <li>Blackfoot River above Landers Fork (pollutants: cadmium, copper, iron, lead, manganese, zinc)</li> <li>Blackfoot River below Landers Fork (pollutants: aluminum, cadmium, iron, zinc)</li> <li>Beartrap Creek (pollutants: cadmium, copper, iron, lead, manganese, zinc)</li> <li>Mike Horse Creek (pollutants: aluminum, cadmium, copper, iron, lead, manganese, zinc)</li> <li>Sandbar Creek (pollutants: aluminum, copper, iron, manganese)</li> <li>Poorman Creek (pollutants: cadmium, copper, lead)</li> </ul>
Impaired Beneficial Uses	<ul> <li>Blackfoot River above Landers Fork (impaired uses: aquatic life; cold water fish; drinking water supply)</li> <li>Blackfoot River below Landers Fork (impaired uses: aquatic life; cold water fish)</li> <li>Beartrap Creek (impaired uses: aquatic life; cold water fish; drinking water supply)</li> <li>Mike Horse Creek (impaired uses: aquatic life; cold water fish; drinking water supply)</li> <li>Sandbar Creek (impaired uses: aquatic life; cold water fish; drinking water supply)</li> <li>Poorman Creek (impaired uses: aquatic life; cold water fish)</li> </ul>
Pollutant Sources	- Metals: Mine disturbances, natural background
Target Development Strategies	<ul> <li>Numeric metals concentrations in water column for aquatic life/fishery and for drinking water/domestic use support; hardness adjustments to numeric targets must be incorporated</li> <li>Elimination of objectionable deposits from metal precipitates</li> <li>Metals in stream sediments may not impede beneficial uses</li> <li>Biota (periphyton, macroinvertebrate) equal to or better than reference conditions</li> </ul>
TMDLs	<ul> <li>Based on numeric concentration targets multiplied by stream flow (all metals, various flow conditions)</li> </ul>

Allocations	eadwaters TMDL Planning Area Metals TMDL Summay Information.
	<ul> <li>Performance-based load allocations for mine disturbances in the Upper Blackfoot Mining Complex (UBMC) (applies to all metals TMDLs in Mike Horse and Beartrap Creeks and the Blackfoot River)</li> <li>Performance based waste load allocation for discharge permit based on meeting water quality standards either within the discharge or within the mixing zone (applies to multiple metals from a wetlands treatment system permitted discharge within the UBMC)</li> <li>Additional load allocations to tributary drainages where future monitoring identifies metals impairment conditions; (applies to specific metals associated with tributary impairment conditions and could result in additional load reductions for metals of concern in the Blackfoot River)</li> <li>Load allocations to identified mining sources and natural background loads so that TMDL conditions are satisfied (applies to metals in Sandbar and Poormai Creek drainages)</li> </ul>
Restoration Strategies	
	<ul> <li>UBMC restoration efforts currently underway for mine disturbances as identified within the temporary water quality standards (primary restoration approach for Mike Horse and Beartrap Creeks and the Blackfoot River)</li> <li>Further characterization of identified mine disturbances in tributary drainages not covered by the UBMC (Sandbar Creek, Poorman Creek/Swansea Gulch)</li> <li>Further characterization of Poorman Creek and Willow Creek to better define impairment conditions and/or loading sources</li> <li>Monitoring or key tributary drainages to the Blackfoot River where impairment conditions have yet to be fully evaluated and subsequent identification and characterization of significant metals sources (Seven UpPete, Alice, Hogum, Hardscrabble Creeks, others)</li> <li>Pursue restoration for significant mining and other metals sources within tributary drainages outside UBMC responsibilities (Poorman/Swansea, Sandbar Creek, other tributary streams where appropriate)</li> <li>Adaptive management approach based on water quality monitoring and implementation of restoration activities (all water bodies)</li> </ul>
Margin of Safety	<ul> <li>Metals targets apply during various flow conditions with considerations for changing hardness conditions</li> <li>Adaptive management approach that commits to future monitoring and assessment</li> <li>Built in margins of safety within existing numeric water quality standards</li> <li>Application of most protective numeric standards, typically the chronic aquatic life standard</li> <li>Addition of biota targets and sediment chemistry targets</li> <li>Impairment determinations consider all relevant data and seasonality in a conservative manner</li> <li>Significant monitoring efforts associated with metals related watershed characterization and restoration efforts</li> </ul>

Seasonal Considerations	- Metals impairment and loading conditions evaluated at various flow
	- Metals TMDLs incorporate stream flow as part of the TMDL equation
	<ul> <li>Metals targets apply during various flow conditions with considerations for changing hardness conditions</li> </ul>
	<ul> <li>Existing and future monitoring addresses varying flow conditions</li> </ul>